DIODE PENTODE
MINIATURE TYPE
COATED UNIPOTENTIAL CATHODE
HEATER
6.3 VOLTS 0.45 AMP.
AC OR DC
ANY MOUNTING POSITION

THE 6AS8 IS A GENERAL-PURPOSE, MULTIUNIT TUBE USING THE 9 PIN MINIATURE
CONSTRUCTION. IT CONTAINS A HIGH PERVEANCE DIODE AND A SHARP-CUTOFF
PENTODE IN ONE ENVELOPE. IT IS INTENDED FOR DIVERSIFIED APPLICATIONS IN
TELEVISION AND RADIO RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH NO EXTERNAL SHIELD

DIODE UNIT
PLATE TO HEATER & CATHODE & INTERNAL SHIELD 3.0 pf

PENTODE UNIT
GRID #1 TO PLATE (MAX.) 0.03 pf
INPUT 7.0 pf
OUTPUT 2.4 pf
PENTODE GRID TO DIODE PLATE (MAX.) 0.005 pf
PENTODE PLATE TO DIODE CATHODE (MAX.) 0.15 pf
PENTODE PLATE TO DIODE PLATE (MAX.) 0.10 pf

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM
CLASS A1 AMPLIFIER

HEATER VOLTAGE 6.3 VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE 200 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE 200A VOLTS
MAXIMUM PLATE VOLTAGE 300 VOLTS
MAXIMUM GRID #3 VOLTAGE 0 VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE 300 VOLTS
MAXIMUM GRID #2 VOLTAGE SEE SECOND CURVE
MAXIMUM GRID #1 VOLTAGE:
POSITIVE BIAS VALUE 0 VOLTS
MAXIMUM PLATE DISSIPATION 2.5 WATTS
MAXIMUM GRID #2 INPUT 0.5 WATT
MAXIMUM GRID #1 CIRCUIT RESISTANCE:
CATHODE BIAS OPERATION 1.0 MEGOHM
FIXED BIAS OPERATION 0.25 MEGOHM
RATINGS – CONT'D
INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

<table>
<thead>
<tr>
<th>DIODE UNIT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM PEAK HEATER-CATHODE VOLTAGE</td>
<td>200 VOLTS</td>
</tr>
<tr>
<td>HEATER NEGATIVE WITH RESPECT TO CATHODE</td>
<td>200A VOLTS</td>
</tr>
<tr>
<td>HEATER POSITIVE WITH RESPECT TO CATHODE</td>
<td>330 VOLTS</td>
</tr>
<tr>
<td>MAXIMUM PEAK INVERSE PLATE VOLTAGE</td>
<td>50 MA.</td>
</tr>
<tr>
<td>MAXIMUM PEAK PLATE CURRENT</td>
<td>5 MA.</td>
</tr>
<tr>
<td>MAXIMUM DC PLATE CURRENT</td>
<td></td>
</tr>
</tbody>
</table>

*THE DC COMPONENT MUST NOT EXCEED 200 VOLTS.*

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

<table>
<thead>
<tr>
<th>PLATE SUPPLY VOLTAGE</th>
<th>200 VOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRID #3 CONNECTED TO CATHODE AT SOCKET</td>
<td></td>
</tr>
<tr>
<td>GRID #2 SUPPLY VOLTAGE</td>
<td>150 VOLTS</td>
</tr>
<tr>
<td>CATHODE BIAS RESISTOR</td>
<td>180 OHMS</td>
</tr>
<tr>
<td>PLATE RESISTANCE (APPROX.)</td>
<td>300 000 OHMS</td>
</tr>
<tr>
<td>TRANSCONDUCTANCE</td>
<td>6 200 µMhos</td>
</tr>
<tr>
<td>GRID #1 BIAS (APPROX.) FOR I_b = 40 MA.</td>
<td>-9 VOLTS</td>
</tr>
<tr>
<td>PLATE CURRENT</td>
<td>9.5 MA.</td>
</tr>
<tr>
<td>GRID #2 CURRENT</td>
<td>3 MA.</td>
</tr>
</tbody>
</table>

→ INDICATES A CHANGE